

Interagency cowpokes ride into town for Detector Rodeo

by Kirsten Miller

In April, a rodeo took place at the Nevada Test Site. It was not your typical rodeo, though. There were no horses or bull-riding or cattle roping – just a few cowpokes trying to detect radiation in the Nevada desert.



Participants from Lawrence Livermore National Laboratory and the Remote Sensing Laboratory at Andrews Air Force Base analyze data in a control center trailer.

In order to make improvements on radiation detection equipment, equipment is tested each year. The Detector Rodeo provides interagency participants a forum to test radiation detection equipment against possible real-world targets.

From April 7 to April 13, more than 160 detector “cowpokes” from 20 agencies and laboratories came to the Nevada Test Site (NTS), which served as

the corral for this year’s rodeo. Two days of training took place prior to the participants testing their equipment. Before dawn on Monday, April 9, many of the participants were on Frenchman Flat conducting experiments. At the same time, other experimenters were inside the Device Assembly Facility (DAF) with configurations designed to allow longer measurements for identification purposes. Led by **John Flam** of the Lawrence Livermore National Laboratory (LLNL) and **Roger Osantowski** of the Los Alamos National Laboratory (LANL), the experimenters were shown true NTS hospitality.

Radiological targets were in place the entire day for the experimenters to test their radiation detectors. Over a five-day period, ten different radiological configurations from seven different

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Participants from the Environmental Protection Agency use their radiation detection equipment on a secured source.

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A PUBLICATION FOR ALL MEMBERS OF THE NNSA/NV FAMILY

Rodeo

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sources were offered for testing. The experimenters were free to take measurements in their own manner, but the data collected had to be submitted to Bechtel Nevada (BN) exercise controllers and scientists. Helicopter measurements were also taken and the results submitted to Bechtel Nevada. By the end of the week, 160 weary but satisfied cowpokes were riding the trail back home.

Activities and results of the sensing and diagnostic data collected during the rodeo were presented to representatives from the U.S. Department of Energy, the U.S. Department of Defense, the Defense Threat Reduction Agency, the Federal Bureau of Investigation, the U.S. Treasury, and the U.S. Customs Service on April 26 at Andrews Air Force Base. General **John A. Gordon**, administrator of the National Nuclear Security Administration, has already briefed Congress on the Detector Rodeo and its contributions to the advancement of national security.

"Many thanks to all of the people who gave their heart and soul to ensure this year's Detector Rodeo was a complete success," said **Kathy Carlson**, manager of the National

Nuclear Security Administration's Nevada Operations Office (NNSA/NV).

A special thanks goes to **Chuck Costa** (LANL) who ran the herd on Frenchman Flat; **Mike Martinez** (LLNL) who held down the fort during the DAF experiments; **Rich Tighe** (BN) who excelled in technology, data analysis, and presentation duties; **Gary Chilton** (BN) who provided all of the logistical needs; **Julie Carpenter** (LANL) who controlled all of the health physics aspects including radiation monitoring; **Steve Curtis** (NNSA/NV) the on-site electronics engineer; and **Tim Cooper** (NNSA/NV) who was in charge of all Detector Rodeo activities. The event resulted in a greater understanding of detector technology among all participants and was truly an interagency effort.

Rodeo II is scheduled to take place at Los Alamos National Laboratory, but Rodeo III is scheduled for next April at the NTS. It will be expanded to a two-week event with a larger variety of targets and radiation sources. Grab your reins and hold on tight! The ride is going to be better than ever.

Trying to keep cool for less

by Kurt Arnold

Turn on any television or radio station and you will probably hear something about record temperatures and rising electric rates. Most listeners would immediately begin to think about their own cooling units and their fast-spinning electric meters at home, but there are a few listeners who would begin to think about the cooling systems and lights at work.

Bechtel Nevada's site services division has the responsibility to provide the power to cool, heat, and light the buildings at the Nevada Test Site (NTS) and the majority of the buildings at the North Las Vegas complex. When higher electric rates and record temperatures are reported, the site services division immediately begins to find ways to reduce power consumption.

"One way we have found to save

departments from paying higher energy costs was to more efficiently allocate recharges to power users, which in turn saves the company money," commented **Lee Kapit**, Bechtel Nevada's acting assistant general manager, site services. "Once the power users were identified, the new charges were redistributed among the users. The end result is a much smaller increase in the overall increased power costs, which allows users to reduce their cost of doing business," Kapit added.

In the past, about 80 percent of the power costs were charged to identified users and the remaining 20 percent was lumped together and redistributed. To better distribute costs with the actual users, all current users of power need to be identified. Currently, 98 percent of the users were identified and the remaining 2 percent were not charged. Those not charged included common use areas, such as street

lights, baseball field lights, etc.

Another way the facility department proposes to save money is through an energy audit. Through an Implementation Energy Saving Performance Contract, which would be awarded to an outside vendor, the current power system would be assessed and suggestions to modify the system would be made. Savings incurred from the modified system would be used to pay for any power system enhancements. This approach would be conducted in phases, beginning with the North Las Vegas complex followed by the Nevada Test Site.

Steps have already been taken to reduce the power consumption at all facilities. Bechtel Nevada's utilities department has implemented new metering systems at the Nevada Test Site to accurately collect power usage

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Trying to keep cool for less

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at each facility. At the North Las Vegas facility lights are controlled by automatic systems which turn them on in the mornings and off in the evenings. The cooling units are also on a similar system which lowers the temperature to 78F in the mornings and raises it to 85F on the week-ends. At the Nevada Test Site, programmable thermostats are in place that allows similar settings to be made to conserve power consumption.

High energy costs are a concern for everyone. Conservation is a way to help reduce the consumption of energy and help save on electric bills.

If you have any questions on energy costs, contact **Rhyan Andrews, BN (702-295-7959)**.

Employees can also further assist in reducing power consumption by following these simple tips:

At work

- Turn off any lights not being used
- Turn off printers when not in use and before you go home
- Use a screen saver (protects data and also uses less power)
- Turn off any unused electrical appliances (radios, shredders, desk lights, etc.)



At home

- Turn off unused lights
- Vacuum refrigerator coils
- Set air-conditioning thermostats between 76-80 F
- Set water heater thermostat to 120F
- Change incandescent bulbs to compact fluorescent ones
- Change furnace/air conditioning filters monthly
- Use ceiling fans to

keep air moving

- Check for holes and cracks around doors, windows, light fixtures, outlets, and walls
- Install caulking or weatherstripping to stop air leaks from holes and cracks
- Check for open fireplace dampers
- Plant trees and shrubs on the south and west sides of your home
- Fully insulate your attic (added cost, but can save up to an additional 25% on power bills)

Did you know that the typical U.S. family spends close to \$1,300 a year on their home's utility bills?

Unfortunately, a large portion of that energy is wasted. By using a few inexpensive energy-efficient measures, energy bills can be reduced by 10 to 50 percent, and in turn help reduce air pollution.

Were you aware that the largest portion of a utility bill for a typical house is for heating and cooling?

Typically, about 44 percent of your utility bill goes for heating and cooling; 33 percent goes for lighting, cooking, and other appliances; 14 percent is used for heating water; and 9 percent is used just for the refrigerator.

Did you know that by using ceiling fans and/or small electrical fans you can help save energy?

The fans will help spread cool air more effectively through your home without greatly increasing your power use.

Mercury Highway and Rainier Mesa Road renovation update

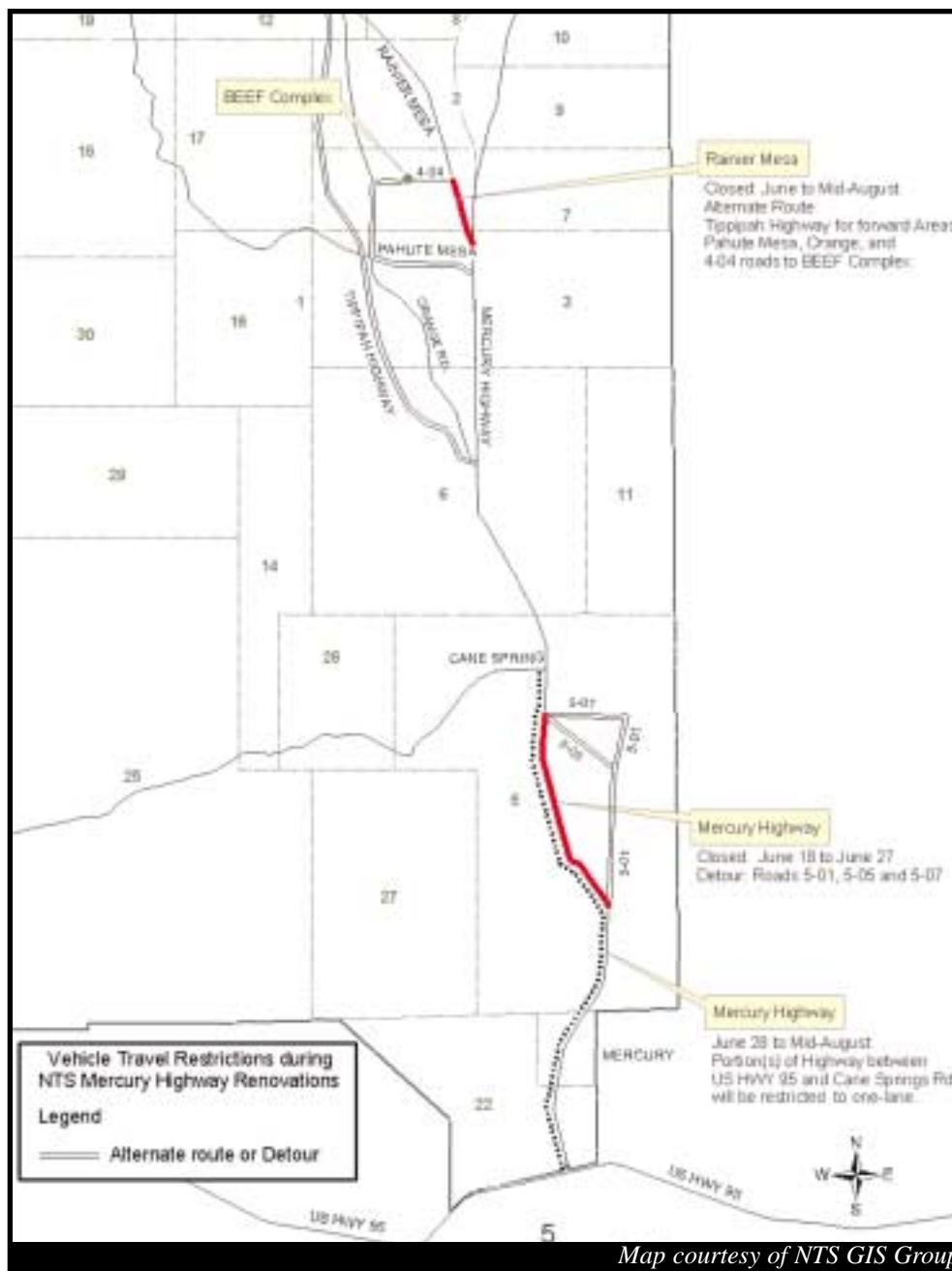
by Bob Platoni

On Monday, June 18 the Mercury Highway was temporarily closed from Road 5-01 to Road 5-07 for the installation of new drainage culverts. This section of Mercury Highway will re-open to traffic by the middle of August. During this closure, all traffic will divert to Roads 5-01, 5-05, and 5-07.

Beginning Monday, June 25 Rainier Mesa Road will close from Mercury Highway (BJ Wye) to Road 4-04 until the middle of August. Tippisah Highway can be used as an alternate route to the northern sections of the Nevada Test Site. Access to the Big Explosive Experiment Facility (BEEF) can be obtained by exiting Mercury Highway at Pahute Mesa Road, driving west to Orange Road, turning north on Orange Road to Road 4-04, and then east on Road 4-04 to BEEF.

Portions of Mercury Highway, between Route 95 and Cane Springs Road, will be restricted to one lane of traffic for pavement renovation beginning Thursday, June 28 until approximately the middle of August.

Please exercise additional caution while driving through and around these work areas. Please follow all traffic control instructions. You may want to allow yourself some additional travel time.



In the July issue of SiteLines...

- * Wild colt rescued at NTS
- * Jim Bridger JHS student's plane to fly at McCarran
- * Six Sigma Update

NTS newest fashion plate

by Nancy Tufano

On May 30, 2001, the Nevada State Legislature passed a bill that will commemorate the history of atomic testing in Nevada in the form of special issue license plates. In an effort lead by Senator **Dina Titus**, the special issue license plates will produce revenue to aid fund-raising efforts in support of the Nevada Atomic Testing History Institute.

The bill was first introduced in the Nevada State Senate in February 2001 by Senator Titus, where it passed. But after a tumultuous trip through the Nevada State Assembly, the bill was rejected earlier in May. Undeterred, the Senate added the proposal for the commemorative license plate onto another bill, passed it and sent it to the Assembly for approval where Assembly members voted to pass the bill.

The state of Nevada's Department of Motor Vehicles and Public Safety must receive 250 orders for the special commemorative Nevada Test Site (NTS) license plates before they are produced. In addition to other applicable registration and license fees, the NTS plates will cost an additional twenty-five dollars. Requests for the NTS commemorative plates are expected to exceed the minimum 250 order requirement due to the thousands of present and past employees affiliated with the Nevada Test Site.

Revenue from the special plates will go to support the

Nevada Atomic Testing History Institute, an affiliate of the Smithsonian Institute. The facility, operated by the Nevada Test Site Historical Foundation, will include a major exhibit center reflecting 50 years of Nevada Test Site history. The facility will also include the National Nuclear Security Administration's Coordination and Information Center, which contains the most complete record of the United States' atomic testing program and a reading room with print and multi-media information available to the public. In addition, the Desert Research Institute's Curation Center, housing nearly 500,000 artifacts collected by archaeologists during more than 20 years of research at the Nevada Test Site, will be located at the institute.

Senator Titus, who previously co-sponsored a bill to issue revenue bonds in support of the institute, stated that the commemorative plates are "...in recognition of a facility which has had a tremendous impact on the history, not just of Nevada and the U.S. but of the entire world. The critical role played by the test site in the Cold War needs to be documented, researched, and better understood."

If you are interested in placing an order for a Nevada Test Site commemorative license plate or if you would like more information, contact the Nevada State Department of Motor Vehicles toll free at 1-877-368-7828, or visit their website at <http://nevadadmv.state.nv.us>.

Hearing conservation

by Rick DuBose

One of the human senses commonly taken for granted is the ability to hear. While some people may lose their hearing due to an instantaneous extremely loud noise such as an explosion, most people lose their hearing by being exposed to lower levels of noise over a long period of time. This hearing loss is often a subtle one and many individuals are not aware of this loss.

Employers are generally required to implement a hearing conservation program whenever employee noise exposures exceed a pre-established level. The employer is required to provide a training program for these employees, provide them baseline and annual audiometric testing, hearing protectors, and maintain records of employee exposure measurements, equipment

calibration, etc. However, many employees routinely exposed to high noise levels do not practice simple yet effective hearing conservation practices while away from work.

Hobbies often provide an ongoing source of harmful noise levels. Continuous exposure to sound pressure levels generated by wood or metal-working, the shooting sports, motorcycles, and loud music, among others, can affect your hearing acuity if you do not use hearing protection. While the employer may implement engineering or administrative controls to reduce employee exposure to hazardous noise, off-work activities should also be evaluated for any associated risk to hearing.

An individual may reasonably expect to incur some degree of hearing loss

with age, but the use of proper hearing conservation methods can deter this process to some extent. Hearing acuity in the speech frequencies may become better with rest and application of hearing protection. Safety and Industrial Hygiene Department personnel can effectively evaluate work environments by conducting sound pressure level surveys, recommending engineering/administrative controls, and by recommending proper hearing protection. It is up to you, however, to make responsible decisions regarding non-occupational exposure to the effects of hazardous noise.

If you want to request a sound pressure level survey of your work environment, contact **Victor Dunn, BN (702-295-7675)**.

50 Years at the NTS

This article is part of a continuing series of historical articles that focuses on the events, places, and people associated with the 50th anniversary of the Nevada Test Site.

by Derek Scammell

At 1,527 feet, the BREN (Bare Reactor Experiment — Nevada) Tower is the largest free-standing structure west of the Mississippi River. It is taller than the Empire State Building's 1,472 feet and more than half again taller than the Eiffel Tower's 984 feet. BREN Tower is also one of the best known and most visible landmarks at the Nevada Test Site.

It is constructed of 51 thirty-foot sections of high tensile steel, which are anchored with five-and-one-half miles of steel cables and designed to withstand winds greater than 120 miles per hour. Equipped with a two-man elevator, it operates at a speed of 100 feet per minute.

The BREN Tower got its name from the initials of a 1962 experiment for which it was constructed: Bare Reactor Experiment — Nevada. BREN, which was a major project of the Civil Effects Test Operation of the Atomic Energy Commission's (AEC) Division of Biology and Medicine, was constructed primarily to develop a means for accurately estimating the radiation doses received by selected survivors of the combat atomic bombings of Hiroshima and Nagasaki, Japan.



U.S. Department of Energy photo

The final section of the 1,527 foot BREN tower is lifted into place.

A small unshielded (bare) reactor was mounted on an outside hoist car, used for moving various levels up and down the tower. In a haunting bid for realism, a mock Japanese village was built near the base of the tower (only a few 2 x 4's remain today) so the shielding effects of various types of house styles

and materials could be taken into account in estimating human radiation doses. This vast effort became a cornerstone of modern radiation estimates, indicating that the neutron dose to the Japanese was quite large.

Since the 1962 experiment, the tower has been used for many other scientific purposes. Groups used it to obtain data on shielding against radiation, neutron activation in soil and radiation measuring techniques.

Both the U.S. Weather Bureau and Sandia National Laboratories instrumented the tower to record information on winds, temperature, and air pressures. The information was transmitted electronically to distant receiving stations. As additional programs and experiments were proposed involving use of the tower, it became apparent that its useful life could be extended for many years. It also became clear that continued and expanded programs at BREN Tower would hinder the Nevada Test Site's primary program of underground nuclear testing. Location of the tower in Yucca Flat, Area 4 (site of today's Big Explosives Experimental Facility) — the main testing area — was a limiting factor both in placement and the yield of the underground tests. It was decided to move the tower to its present location in Jackass Flats, to conduct Operation HENRE.

In 1966, a \$380,000 contract was awarded to the Dresser-Ideco Company, Columbus, Ohio, to dismantle the tower

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U.S. Department of Energy photo

BREN tower, shown in Yucca Flat before it was moved to Jackass Flat in 1966. Two Japanese-style houses are shown in the foreground.

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and move its present location in Jackass Flats. This was the same company that erected the tower in 1962.

Operation HENRE (High Energy Neutron Reactions Experiment) began in September 1966. It's primary purpose was to develop information for the biological research programs of the AEC and the Armed Force Radiobiology Research Institute, Bethesda, Maryland. HENRE, as in the case of BREN, was part of a long-term AEC program for evaluating the effects of radiation does received as a result of nuclear explosions.

A small accelerator was mounted to the tower. Instruments then measured the distribution of radiation for studies related to a variety of effects, including the long-term medical effects of radiation. The project was jointly funded by the AEC and the Department of Defense at a cost of about \$600,000.

Measurements were made from many distances from the accelerator by radiation dosimetry instruments to determine the distribution of neutrons and of energetic gamma rays



U.S. Department of Energy photo

A "gin pole" lifts the sections of the tower into place.

produced when neutrons collide with atoms in the air. Radiation scattering and applied shielding experiments were also made.

The liner accelerator was designed and fabricated by the Oak Ridge National Laboratory in Tennessee in cooperation with the Armed Force Radiobiology

Research Institute and the AEC's controlled thermonuclear research program. The fusion (deuterium tritium) reaction was used to obtain 14 million-electron-volt neutrons. The accelerator was installed on the tower in much the same manner as was the BREN unshielded research reactor and large cobalt-60 gamma radiation source.

The knowledge gained from the two dose radiation measurement research programs was correlated with the medical studies of the Atomic Bomb Casualty Commission in Japan. This commission was a research agency of the National Academy of Sciences-National Research Council which was funded by the AEC and operated in conjunction with the National Institute of Health of Japan.

Glossary of terms

Neutron - An uncharged particle in the nucleus of all atoms except hydrogen; a neutron is one of the three basic particles that make up the atom, the others being protons and electrons. Neutrons can be absorbed by paraffin, hydrogenous materials, or very thick layers of lead. Radiation from neutrons can be lethal to humans depending on dose and length of exposure.

Deuterium - A hydrogen isotope that contains one neutron as well as one proton; it is used as a thermonuclear fuel constituent and as a neutron moderator (in the form of heavy water) in nuclear reactors. It is colorless, odorless, flammable gas and is considered non-toxic except for its flammable properties. In nuclear weapons, lithium deuteride can be used as a thermonuclear explosive.



Sandia National Laboratory

Sandia National Laboratories began in 1945 on Sandia Base in Albuquerque, New Mexico, as Z Division, part of what's now Los Alamos National Lab (LANL). Both labs were born out of America's World War II atomic bomb development effort — the Manhattan Project. Sandia came into being as an ordnance design, testing, and assembly facility, and was located on Sandia Base to be close to an airfield and work closely with the military. In 1948, Z Division was renamed Sandia Laboratory, a separate branch of Los Alamos. On November 1, 1949, Sandia Corporation, a wholly owned subsidiary of Western Electric, took over management of Sandia Laboratory. In 1949, President Harry Truman wrote a letter to American Telephone and Telegraph Company President Leroy Wilson, offering the company "an opportunity to render an exceptional service in the national interest" by managing Sandia. AT&T accepted, began managing the Labs on Nov. 1, 1949, and continued in that role for nearly 44 years. In 1956, Sandia opened new facilities in Livermore, California (Sandia/California), to support the nuclear weapons work of the new Lawrence Livermore Laboratory. Sandia was made a national laboratory in 1979.

50 Years at the NTS

June tests at the Nevada Test Site



U.S. Department of Energy photo

Climax, part of the Upshot/Knothole series, was a 61 kiloton device fired June 4, 1953, at the Nevada Test Site.



U.S. Department of Energy photo

Priscilla was a 37 kiloton balloon shot fired June 24, 1957, at the Nevada test Site.

The following tests were conducted during the month of June:			
George - June 1, 1952	Dub - June 30, 1964	Arnica-Yellow - June 26, 1970	Fajy - June 28, 1979
How - June 5, 1952	Petrel - June 11, 1965	Arnica-Violet - June 26, 1970	Kash - June 12, 1980
Climax - June 4, 1953	Organdy - June 11, 1965	Embudo - June 16, 1971	Huron King - June 24, 1980
Franklin - June 2, 1957	Diluted Waters - June 16, 1965	Laguna - June 23, 1971	Harzer - June 6, 1981
Lassen - June 5, 1957	Tiny Tot - June 17, 1965	Dexter - June 23, 1971	Kesti - June 16, 1982
Wilson - June 18, 1957	Pile Driver - June 2, 1966	Harebell - June 24, 1971	Nebbiolo - June 24, 1982
Priscilla - June 24, 1957	Tan - June 3, 1966	Camphor - June 29, 1971	Danablu - June 9, 1983
Raccoon - June 1, 1962	Puce - June 10, 1966	Merida - June 7, 1972	Duoro - June 20, 1984
Packrat - June 6, 1962	Double Play - June 15, 1966	Capitan - June 28, 1972	Salut - June 12, 1985
Des Moines - June 13, 1962	Kankakee - June 15, 1966	Haplopappus - June 28, 1972	Ville - June 12, 1985
Daman I - June 21, 1962	Vulcan - June 25, 1966	Tajique - June 28, 1972	Maribo - June 26, 1985
Haymaker - June 27, 1962	Halfbeak - June 30, 1966	Dido Queen - June 5, 1973	Tajo - June 5, 1986
Marshmallow - June 28, 1962	Switch - June 22, 1967	Almendro - June 6, 1973	Darwin - June 25, 1986
Sacramento - June 30, 1962	Midi Mist - June 26, 1967	Potrillo - June 21, 1973	Brie - June 18, 1987
Yuba - June 5, 1963	Umber - June 29, 1967	Portulaca - June 28, 1973	Mission Ghost - June 20, 1987
Hutia - June 6, 1963	Wembley - June 5, 1968	Silene - June 28, 1973	Panchuela - June 30, 1987
Apshapa - June 6, 1963	Tub-A - June 6, 1968	Jara - June 6, 1974	Comstock - June 2, 1988
Clean Slates III - June 9, 1963	Tub-B - June 6, 1968	Ming Blade - June 19, 1974	Rhyolite - June 22, 1988
(Nellis Air Force Range - NAFR)	Tub-C - June 6, 1968	Stilton - June 3, 1975	Nightingale - June 22, 1988
Mataco - June 14, 1963	Tub-D - June 6, 1968	Mizzen - June 3, 1975	Contact - June 22, 1989
Kennebec - June 25, 1963	Tub-F - June 6, 1968	Alviso - June 11, 1975	Amarillo - June 27, 1989
Ace - June 11, 1964	Rickey - June 15, 1968	Futtock - June 18, 1975	Bullion - June 13, 1990
Bitterling - June 12, 1964	Funnel - June 25, 1968	Mast - June 19, 1975	Austin - June 21, 1990
Duffer - June 18, 1964	Sevilla - June 25, 1968	Camembert - June 26, 1975	Victoria - June 19, 1992
Fade - June 25, 1964	Chateaugay - June 28, 1968	Forefoot - June 2, 1977	Galena-Yellow - June 23, 1992
	Tapper - June 12, 1969	Jackpots - June 1, 1978	Galena-Orange - June 23, 1992
	Bowl-1 - June 26, 1969	Pepato - June 11, 1979	Galena-Green - June 23, 1992
	Bowl-2 - June 26, 1969	Chess - June 20, 1979	

Corporate Challenge 2001

by La Tomya Glass and Nancy Tufano

Participants in the 2001 City of Las Vegas Corporate Challenge displayed unparalleled team spirit this year as they engaged in such events as soccer, basketball, tennis, golf, darts, broomball, and track and field, among many others, during the months of April and May.

The National Nuclear Security Administration's Nevada Operations Office family of athletes took top honors in many events. The Nevada Employees Association team took third place in the 'D' division of this year's Corporate Challenge. Top medal winners included **Pat Bodin, Daryl Depew, Steve Lawrence, Davis Sesma, and Bill Suiter**. The team took first places in chess, trap shoot, skeet, and shuffleboard.

Bechtel Nevada's Corporate Challenge team placed fourth in the 'B' Division at the 2001 games. BN placed first in the shuffleboard, horse-shoes, and the skeet shoot competitions. Top medal winners include **Harry Bouie, Jan Cowley, Rich**



Hofner, Ed Hohman, Darlene Holseth, Jack Janne, Barbara Kemnitz, Bill Kreitlow, Don McIntosh, Dennis Swick, Harry Tuthill, Kathy Utiger, and Sarah

Yenglin

The Wackenhut Services team placed second in the Division 'C' competition. WSI earned first place in the 8-ball, range shooting, shuffleboard, archery, and tennis competitions.

Kelly Goebel, Eugene Hutchinson, Don Kelly, Mary Maier, and Jim Thimsen were some of the top medal winners for WSI.

IT Corporation placed fourth in the Division 'C' competition. Top medal winners for IT Corporation include **Steve Adams, Dawn Arnold, Rob Boehlecke, Rick Deshler, Joe Johnston, and Merrie Martin**. IT Corporation placed first in the darts and tennis competitions.

Congratulations to all the participants and volunteers who helped make Corporate Challenge 2001 a successful example of sportsmanship and team competition.

Summer tire checklist

The Department of Transportation has issued these tire safety tips to consumers for the summertime vacation season. Tire care is especially critical in warm weather because long trips, heavy loads, higher speeds, and higher temperatures all put additional stress on tires.

- Check your tires regularly to be sure there are no visible signs of wear, damage, bulges, or tread separation.
- Be sure your tires are properly inflated. Check your tire pressure often—with an accurate gauge—for routine driving and before and during any long trips. Measure the tire when the tires are cold, before you drive on them. The recommended inflation pressure can be found in your owner's manual or on a label frequently found in the glove box, near the door latch on the driver's side, or other locations on your vehicle. The recommended inflation pressure is not to be confused with the maximum inflation pressure that is shown on the side of the tire. At the recommended inflation pressure, tires will last longer and be less likely to fail, and the car will use less fuel. Serious injury can result from tire failure because of under inflation or overloading.
- Never overload your vehicle. Your car and tires are designed to operate safely only up to their load limits. These limits are shown in your owner's manual and on the certification plate on the edge of the driver's door.
- Make sure there is enough tread on the tire to operate safely

and the tires are wearing normally. All grooves should be visible and deep enough to at least touch the top of Lincoln's head on a penny inserted head first in the tread. Low tread or bald tires are unsafe and need to be replaced.

- If some spots on the tire seem to be wearing faster than others, see your service station or mechanic. You could have misaligned wheels, worn shock absorbers, or other potential problems. Make sure your tires are aligned and balanced properly.
- Don't drive at a high rate of speed for a long time, particularly in hot weather. Obey posted speed limits. Lower speeds also mean better gas mileage.
- Make sure that every person in every vehicle is properly restrained in a seat belt or child safety seat on every trip—before you turn the key in the ignition.

Taking the time to ensure that your vehicle's tires are properly inflated, show no signs of abnormal wear, and are properly aligned and balanced will mean a more enjoyable and safer summer vacation.

For obtain additional information from the U.S. Department of Transportation, contact their **Auto Safety Hotline (1-888-327-4236)** or visit their website at **www.dot.gov**.

Beyond the call

Photos by Kurt Arnold and Cheryl Oar

BN volunteers renovate another home

by Kurt Arnold

It took more than 40 volunteers, one month of Fridays, and fourteen-hour days to complete the work on this year's Christmas in April project. This year's project had special significance; the 93-year-old homeowner was once a Nevada Test Site worker.

This year's project, located in North Las Vegas, started on April 6 with the removal of the concrete driveway and a large palm tree growing along the side of the driveway. The palm tree had caused the driveway to crack and buckle, so it was carefully removed and hauled away. A metal storage shed in the backyard was moved from its existing pad so forms could be placed to expand the pad. Several other storage sheds and an old refrigerator containing tools and old equipment were sorted and placed inside the old storage shed.

On April 13 volunteers helped pour concrete and finish the new driveway, patio area, and storage shed pad.



BEFORE (left) - Alton Ladd's home before Bechtel Nevada employees make renovation as part of the Christmas in April project. The old driveway and patio have been removed so that new concrete can be poured.

AFTER (right)- This is Mr. Ladd's home after receiving a new coat of exterior paint, a new sprinkler system, landscaping, and the new driveway and patio area.



Concrete was also poured around two new clothesline poles. An old electrical box was removed from the back of the house, new wiring was run to the box, and a new electrical outlet for the stove was installed in the kitchen. A new



BEFORE(left) - The back yard prior after the metal shed had been moved and other storage sheds were hauled away. Forms surround the old concrete pad so that it can be expanded for a new storage shed.

AFTER (right)- Several weeks later a new storage shed rests on the expanded pad while the older shed sits nearby on a wooden floor. The equipment shown in the "before" photo was moved into the smaller shed for storage.



sprinkler system was installed around and in the front yard.

The work on April 20 was crucial because the following Friday was the day before the national day. Completing these tasks meant

that the remaining work had to be completed on the following Friday and Saturday. Volunteers worked hard to construct a metal shed on the new concrete pad in the

back yard to temporarily store some of the home's furniture. They scrapped the exterior window sills and house trim of old paint and patched the exterior stucco walls. Telephone and cable television wires were carefully moved along the house's trim. Volunteer electrical professionals placed wiring for the new sprinkler system in a conduit near the front of the house. Several volunteers laid the sod in the front yard and spread rock in the back yard.

The final two days saw volunteers painting the exterior walls and trim, painting the interior walls, painting all the interior doors, laying carpet in the living room and three bedrooms, laying ceramic tiles on the bathroom floor, cleaning and painting the kitchen cabinets, washing windows, cleaning mini blinds, insulating and hanging drywall in the utility room, installing a new water heater and stove, stringing the new clothesline, replacing his old worn mattress and box springs with new ones, and general cleanups in the yard.

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Beyond the call

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Alton Ladd, the homeowner, kept volunteers entertained with his stories of growing up in Arkansas and struggles to make a living during hard times. "I can't believe you all were able to turn this old house into a new one. I wish there were more people like you in this world," commented Mr. Ladd.

The following people gave up their Fridays and sometimes their Saturdays to help transform Mr. Ladd's home: **Kurt Arnold** (team coordinator), **John Birkland**, **Vicky Birkland**, **Glenda Cates** and her son Greg, **Dennis Finney** and friend Cheryl Rodrigues, **Stephen Fisher**, **Gary Gardner**, **Karen Horton**, **Bradley Joseph**, **John Kitt**, **Gabe Klein**, **David Kranjceovich**, **Steve Liedle**, **Ken Machynia**, **Butch Madden**, **Marty Manke** (team captain), **Terry**

McCowan, **Gilbert Medina**, **Steve Metta**, **John Millender**, **William Nichols**, **Cheryl Oar**, **Lee Romeo** and his wife Barbara, daughter Megan, son Andrew and his friend Allison Sanderson, **Ida Romero**, **Ralph Somers**, **W.B. Sutherland**, **Catherine Tharin**, **Lou Tharin**, **Mike Thompson**, **Joan Tourville**, **Nancy Tufano**, **Neal Westphal**, **Delbert Whittington**, and **Jeff Wojcik** and his son Adam.

A special thanks to Bob Cat of Las Vegas (Sergio Servantes), Cheyenne Rock (Cindy Clark), City of North Las Vegas (Paul Hume), Desert Excavation (Steven Fisher), Dupont Flooring Systems, Kentucky Fried Chicken (E. Lake Mead), Home Depot, Nevada Power (Joe Valvo), Nevada Ready Mix, and Port Of Subs.

Christmas in April provides all volunteers with a t-shirt to wear on the national day. Bechtel Nevada donated their extra t-shirts to SafeNest.

Christmas returns early to Pahrump

This marks the second year that Bechtel Nevada participated in a Christmas in April project in Pahrump, Nevada.

Following last year's successful renovation of Rennie Hoffman's home, **Rick Remington** and other residents of Pahrump determined that a Christmas in April chapter was needed in their community. Through the financial support of Bechtel Nevada and the involvement of several residents, a board of directors was established to oversee future Christmas in April projects. Although the chapter was awaiting their nonprofit status, Remington was successful in pulling the community together to participate in a program this year.



Volunteers are the keys to a successful Christmas in April project. Painting is a task that gives volunteers a way to see a quick transformation. Part of this year's painting team included (left to right) Steve Liedle, Ida Romero, Nancy Tufano, and Glenda Cates.

"We had what I feel was a very good response from the community," said Remington. "Ace Hardware donated paint and gave us a cut rate on our materials. The local Albertson's donated drinks and pastries for both weekends. Pahrump Disposal donated a dumpster and provided free hauls. Pahrump Sanitation donated restroom facilities. High Desert Roofing provided pizza and cold beverages. The Retired Firefighters Association donated their services to conduct a safety inspection and provided smoke detectors. Farmer's Insurances donated a fire extinguisher. Wackenhut Services Inc. provided a financial donation. The Carpet Center donated outdoor carpeting for our porches. Rennie Hoffman, last year's recipient, brought us lunch for event day."

Activities that were accomplished for **Janet Starker's** home were as follows: new porches on the front and back of the house, eliminated an electrical fire hazard at the power pedestal by running new wire in conduit underground to service a small trailer in the backyard and also a yard light, repaired a leaking kitchen sink fixed several drawers in the kitchen that were falling apart, a general cleanup of the yard, planted trees, repaired a broken window, and made a sign for the front yard displaying the house address.

The following volunteers helped ensure a successful Christmas in April project: Dale Cain, Sr., M.L. Carnine, C.J. and Jeannie Coker, LaRhea Eastman, Renee Hoffman, Scott Howard, **Tracey Kirkland**, **C.J. May**, **Rick Remington** and his wife Terry, Sandy Sanland, Virgil Sundberg, **Cathy Tharin** and daughter Irina, **Bradley Van Cleave**, and Curtis and Pat Watson.

NTS ISM DAY 2001

Photos and captions by LaTomya Glass

On May 15, employees at the Nevada Test Site (NTS) attended the NTS Integrated Safety Management (ISM) Day III 2001 in Mercury, Nevada. This yearly day of safety observance is designed to focus on the importance of incorporating safety while at work, at home, and at play. This year's theme, "On the ISM Road to a Safe Workplace," drew approximately 100 exhibitors who participated by demonstrating and discussing a wide variety of safety-related topics with the attendees.



photo by LaTomya Glass

Kathy Carlson, NNSA/NV Manager, welcomes test site workers to the 3rd annual ISM Day during the opening ceremony.



photo by LaTomya Glass

NTS workers listen to safety talks presented at the Mercury Cafeteria.



photo by LaTomya Glass

NTS show off their "hot rods" during the classic car & truck competition at ISM day.

Children at work

Bechtel Nevada's Take Your Child(ren) To Work Day 2001

by Tamiko Brown

On April 26, 2001, about 110 Bechtel Nevada and Wackenhut Services Inc. (WSI-NV) children participated in the sixth annual Take Your Child(ren) To Work Day program that showed them some of the work that is done every day.

There were two structured programs, a Nevada Test Site (NTS) tour and North Las Vegas/ Remote Sensing Laboratory-Nellis (NLV/RSL-Nellis) program. Children fourteen and older were able to participate in an all day tour of the NTS.

The day began at 6:30 a.m. for the children heading to the NTS. They experienced hands on fire fighting tactics and life saving procedures. They received a briefing on the capabilities of the Site Operations Center at Control Point-1. The highlight of the tour was the WSI Training Center. It was hard tearing them away from the Firearm Training Simulator. The children went through the lunch line at the Mercury cafeteria and had dessert. Following lunch, everyone received a certification of participation and was eligible for the prize drawings.

For the children that participated in the North Las Vegas program, Bechtel Nevada's Deputy General Manager **Jim Kannard** welcomed the children and asked the children if they had questions. Much to his surprise, they asked technical questions about subcritical experiments and issues with shipping waste.

The participants were broken into specific age groups and attended demonstrations targeted at each age group. The demonstrations consisted of a weather balloon launch by the Weather Service Center, a presentation on the Principles of Light by **Larry Woo**, a chance to see up close the Mobile Intruder Reconnaissance Vehicles and Badger vehicles, and a WSI-NV weapons safety training for the older children.

Once all the children boarded chartered buses, they traveled

to the Remote Sensing Laboratory at Nellis Air Force Base (NAFB). The children were broken into smaller groups to listen to presentations on communications, Geographic Information System, technical operations, radiation sciences, and aviation. The NAFB fire department's crash crew also gave a demonstration on the flight-line. The children were brought back to the North Las Vegas complex where they spent their lunch hour with their parents and then had the opportunity to see where mom or dad works. A short presentation was held to present each child with a certificate of participation, a prize drawing was held, and everyone enjoyed an ice cream treat.

A group photo taken at each location will be sent to each parent so that it may be included with the certificate. The programs would not have been successful without the support of management and the assistance of the presenters and volunteers. Those employees who help make the programs a success are:



*Children learn about the uses of Geographic Information System (GIS) from **Ernie Noriego**, Bechtel Nevada's NTS GIS group member, during a tour of the Remote Sensing Laboratory at Nellis Air Force Base. Employees staff various stations to show the children the type of work conducted at the facility.*

Presenters - **Brian Allen, Guy Andenoro, Mike Childers, Russ Coffey, Dave Colton, Greg Demoss, Raymond Dennis, John Gamby, Joe Hassen, Chuck Howell, Jared Mathis, Tom McKissack, Ernie Noriega, Steve Reidhauser, Michael Rondeau, Rich Sorom, Rich Waters, Patrick Whitely, Lawrence Woo, Mercury Fire Station, and WSI-NV's training instructors.**

Volunteers - **Kurt Arnold, Kathy Banninger, Jeannie Bautista, Elizabeth Becerril, Tamiko Brown, Steve Carragher, Brenda Carter, Dick Davis, Deborah Foster, Jeffrey Gordon, Kathy Grizzle, Frances Guinn, Sheril**

Hamlin, Sandra Hayes, Ronna Hoesch, Judith Lacuadra, Cheryl Landholm, Beverly Larson, Sandra Marshall, Gordon MacLeod, Samantha Messer, Kelly Meurrens, Scott Myers, Linda Middaugh, Jennifer Morgan, Jodi Navarrette, John Nelson, Cheryl Oar, Mary Price, Stephanie Prothro, Carolyn Ribali, Katie Scocozzo, Jim Sharpless, Rick Smith, Vince Stern, Nancy Tufano, Rae Yuhas, James Walker, Vincent Wolfe, the Mercury cafeteria staff, and USA Coach.

Bring Your Children to Work Day 2001

by Kirsten Miller

Children, science experiments, BINGO, field trips, food, and fun at the Nevada Operations Office? It must be *Bring Your Children to Work Day!*

continued on page 14

Children at work

continued from page 13

On April 26, 2001, the National Nuclear Security Administration/Nevada Operations Office (NNSA/NV) participated in the annual program aimed at showing children they can be or do anything. More than 40 children participated in this year's program. Numerous activities took place throughout the day to enable each of them to learn about the missions of NNSA/NV and hopefully spark their interest in science, engineering, and other careers. Some of the day's highlights included a field trip to the Remote Sensing Laboratory at Nellis Air Force Base, tours of Mobile Intruder Reconnaissance Vehicles and Badger defense vehicles currently used at the Nevada Test Site, hands-on technical demonstrations, weather balloon launches, weapons safety demonstrations, and tours of the Nevada Test Site History Center. In conjunction with these activities, Bechtel Nevada offered an

optional tour of the Nevada Test Site for children ages 14 years and older. Every child received a certificate and a goodie bag at the end of the day.



photo by Rick Smith

Nikki and Christopher Carlson, daughter and son of NNSA's Manager, Cathy Carlson, experience handling a fire hose during a tour of the Nevada Test Site. Twenty children participated in the annual Nevada Test Site tour as part of Take Your Child(ren) to Work Day.

Many thanks to the following people for making *Bring Your Children to Work Day* a success:

Toby Bickmore, NNSA/NV; **Michael Brown**, RAI; **Tamiko Brown**, BN; **Kathy Carlson**, NNSA/NV; **Sandy Cross**, NNSA/NV; **Heather Emmons**, IT; **Sheril Hamlin**, WSI; **Nancy Harkess**, NNSA/NV; **Andrea Kato**, NNSA/NV; **Kirsten Miller**, NNSA/NV; **Victoria Niemann**, NNSA/NV; **Ken Powers**, NNSA/NV; **Gary Pyles**, NNSA/NV; **Kevin Rohrer**, NNSA/NV; **Carol Shelton**, NNSA/NV; **Gary Snodgrass**, NNSA/NV; **Mike Spence**, SCI; and **Helen Stolz**, PAI.

Thank you also to the Nevada Support Facility cafeteria, the Mercury cafeteria, and the Nevada Employees Association for all of their support.

BAM!!

by Nancy Tufano

As technology becomes more advanced in today's world, businesses are reaping the benefits of technology to create more efficient, streamlined business systems. Burgeoning technology is the impetus behind Bechtel Nevada's Business Application Modernization (BAM) project. BN's modernization process, begun in Fiscal Year (FY) 01, will replace aging financial systems currently in use by October 2001. BAM will provide users with a consistent software configuration that will impact any BN employee who completes a time sheet, travel expense report, or enrolls in the employee benefits program.

The new Oracle-based system, consistent with the National Nuclear Security Administration's modernization efforts, will be enacted in several phases. During FY 01, the Financial Business System (FIBS) will be replaced and the Procurement and the Accounts Payable System (PAPS) will be upgraded to lay the foundation for changes through FY 05. Subsequent phases will affect employees through the enactment of standardized, easy-to-use computerized forms.

In addition, the BAM project will provide benefits such as:

- A flexible system that will easily accommodate changes.
- Expedition of month-end and year-end closings.
- An online process to create projects.
- Online cost transfers between projects.
- Automated routing and approvals.
- Easier ordering of procurements such as office supplies.
- Project transaction controls by expenditure.
- Improved reporting.

As October approaches, the importance of training on the new BAM system is crucial. **Employees without training on the new system will be denied access.** To accommodate employees, a variety of training has been planned that includes computer/web-based or compact disc training, staff meeting briefings, auditorium presentations, and classroom training from July through December. Current software will not be supported by the new system after December 31, 2001.

For more information about the BAM project, please visit the Business Systems website at <http://bnhome/CFO/BusSys/Default.htm> or contact **Colleen Morris (702- 295-0560)**.

Lessons Learned

Do you know who to contact?

by Dawn Starrett

Submitting a lessons learned or feedback about how you changed a process based on a lessons learned starts with contacting the lessons learned point of contact for your organization. The contacts for each organization that reports to National Nuclear Security Administration Nevada Operations Office (NNSA/NV) are as follows:

NNSA/NV Lessons Learned Point-of-Contact

Theresa H. Beall

e-mail: beall@nv.doe.gov
phone: (702) 295-0226

Site Lessons Learned Coordinator

Dawn Starrett

Bechtel Nevada
e-mail: starred@nv.doe.gov
phone: (702) 295-4297

NNSA/NV Representatives for Assistant Manager (AM) Groups

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phone: (702) 295-0226

Susan Johnson

AM for Business and Financial Services
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phone: (702) 295-0212

Allison Marks

AM for Technical Services
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phone: (702) 295-1085

Bruce Stolte

AM for Environmental Management
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phone: (702) 295-0998

Don Wrathall

AM for National Security
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phone: (702) 295-1636

Contractor Lessons Learned Points-of-Contact

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Jeanne Wightman

ITLV
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phone: (702) 295-1878

Bechtel Nevada

40 years *Las Vegas - Takashi Mayeda, Nevada Test Site - Max Iverson*

35 years *Hawaii Operations - Judith Honda*

25 years *Las Vegas - Barbara Begley, Glenda Cates, Velma Long, Thomas Waltman*

20 years *Las Vegas - Kelly Beardall, Chris Bell, Larry Evans, Steven Gregory, Joseph Hitechew, Marcie Hollingsworth-Olczyk, Kelly Thomas, Kevin Thomas, Steven Slavin; Nevada Test Site - David Fox, Jesus Monje; Los Alamos Operations - Douglas Johnson*

15 years *Las Vegas - Marilyn Anthony, David Belangia, Robert Henning, Roy White, Kelly Trodick*

10 years *Las Vegas - James Crambers, Mark Kunish, Samuel Lyon, Ernesto Noriega, Alicia Santos; Nevada Test Site - Duane Daniels, Clay Young; RSL-Andrews Operations - Lewis Frank, Nancy Mullins, Patricia Thornberry*

5 years *Las Vegas - Kizzie Balkus, Anthony*

Bodin, Charles Brock, Elizabeth Federmack, Robert Keller, Carson Riland, John Talbutt, Philip Ulmer; Nevada Test Site - Ralph Danise, Richard Field, Anthony Hicks, Thomas Karrick, Adrian Martinez, Paul Toles, Milo Torres, Thomas Warburton, Virgil Whitaker

New Hires *Las Vegas - Jon Becker, Christopher Engebretsen, Christopher Forbes, Joseph Krzemien, Cameron Mitchell, Tricia Nix, Clifton Wright; Nevada Test Site - Graciela Eyherabide, Carolyn Cappelletti, Timothy Grover; Los Alamos Operations - Jorge Delgado, Charles Dickerson, Grant Durtschi, Melissa Griffith, Scott Walker; RSL-Andrews Operations - Ronald Wolff*

National Nuclear Security Administration Nevada Operation Office

30 years **Patricia Hall**

10 years **Carol Shelton**

Lawrence Livermore National Laboratory

15 years **Jeffrey Haeberlin**

Environmental ProtectionAgency/R&IE

10 years **James Harris**

Desert Research Institute

15 years **Clifton Frazier, Nanette Merlino**

10 years **David Gillespie, Timothy Minor**

IT Group

15 years **Lowell Wille**

Ruchman and Associates, Incorporated

5 years **Denise Langendorf**

Wackenhut Services, Inc.

30 years *Nevada Test Site - Louis Butler*

20 years *Las Vegas - Julian Almeyda, Kirk Gries*

— Compiled by Tamiko Brown

CALENDAR OF EVENTS

July 4

NNSA/NV and contractors offices closed in observance of Fourth of July holiday.

July 17 (11:30 a.m. repeated at 12:15 p.m.) **Special "Silent Movie" Presentation**

NNSA/NV's Brown Bag Film Series: "B-52 Accident: Yuba City, California" and "Palomares, Spain: Broken Arrow." Great Basin Room, Nevada Support Facility. Contact **Jeff Gordon, BN (702-295-1628)** or **Michael Brown, RAI (702-295-0552)**.

July 19

NTS Public Tour, open to interested members of the public. CP-1, Sedan Crater, Frenchman Flat, HAZMAT Spill Center, Bilby crater, Area 5 Low-level Radioactive Waste Management Site, Apple II houses. Contact **Brenda Carter, BN (702-295-0944)**.

August 30

NTS Public Tour, open to interested members of the public. CP-1, Sedan Crater, Frenchman Flat, HAZMAT Spill Center, Bilby crater, Area 5 Low-level Radioactive Waste Management Site, Apple II houses. Contact **Brenda Carter, BN (702-295-0944)**.

September 19

NTS Public Tour, open to interested members of the public. CP-1, Sedan Crater, Frenchman Flat, HAZMAT Spill Center, Bilby crater, Area 5 Low-level Radioactive Waste Management Site, Apple II houses. Contact **Brenda Carter, BN (702-295-0944)**.

Declassified Film Showings

For information on declassified film

showings at NTS CP-1, contact

Denise Langendorf (702- 295-4015). For information on declassified film showings at NTS Yucca Mountain, contact **Rod Rodriguez (702-295-5825)**.

Upcoming conferences and trade shows

July 17-19

Environmental Restoration Technology End User Conference. Westin Peachtree Plaza, Atlanta, Georgia. For additional information, contact Rita Stubblefield, DOE/SR, (803-725-2680) or visit SRS's website (www.srs.gov/general/srenviro/erd/tec/tec2001.html).

July 29 through August 2

36th Intersociety Energy Conversion Engineering Conference. Westin Savannah Harbor Resort, Savannah, Georgia. For additional information, contact **ASME (800-843-2763)** or visit ASME's website (www.asme.org/conf/iecec01).

August 12-17

16th International Conference on Structural Mechanics in Reactor Technology (SmiRT 16). Washington, D.C. For additional information, visit ASCE's website (www.asce.org/conferences/evedetails.cfm?evtid=54).

September 30 through October 4

8th International Conference on Environmental Management (ICEM'01). Oud Sint-Jan Hospital Conference Center, Bruges, Belgium. For additional information or to register, visit the ICEM'01 Conference home page (www.icem-conf.com/ICEM01/main.htm).

October 1-5

Sardinia 2001 - Eighth International Waste Management and Landfill Symposium. Forte Hotel Village Complex, S. Margherita di Pula (25 miles from island capital of Cagliari), Italy. U.S. Department of Energy, National Nuclear Security Administration is one of the sponsors for this symposium. For additional information, visit the Sardinia Symposium 2001 home page (www.sardiniasymposium.it/reginfo.asp).

October 24-26

World Energy Engineering Congress. Georgia World Congress Center, Atlanta, Georgia. For additional information, contact **AEEC (770-279-4386)** or via e-mail to brian@aeeccenter.org.

July is:

**National
Purposeful
Parenting
Month**



Partnering for Education



This new feature will highlight the programs and activities of the U.S. Department of Energy Nevada Operations Office and Bechtel Nevada's partnership with the Clark County School District's Focus School Program.



photo courtesy of Jim Bridger Junior High School

James Ardoian, a six grade student at Jim Bridger Middle School, poses with the Sony Discman he won for being the April winner of the accelerated reading program.

Bechtel Nevada assisted their Focus Schools with the following activities by providing volunteers or financial support:

Accelerated Reading Program
Assistance in library renovation
Books for JASON Project
Buses for field trips
Buses and chaperones for Science Bowl attendance
Chaperones for Hoover Dam tour
Disposable cameras and film processing fund
Donation of school maps
Equipment donation
Ergonomics presentation
Family adoption during holiday season

Fund-raising for Jim Bridger JHS library
Fund-raising for Kit Carson
Incentive award prizes
Music sets
Nevada Reading Week
Paper Airplane contest
PAYBAC speakers
Physics field trip
Presidential Fitness Award ceremony
School supply drives
Science Fairs
Teacher appreciation lunches
Travel Club fund-raising

NNSA/NV assisted their Focus School with the following activities by providing volunteers or financial support:

Assistance in the computer lab
Backpack and school supply drive
Bake sales
Chaperones for Science Bowl attendance
Fund-raising activities
Hispanic Heritage Month activities
Holidays bags for students
Make A Difference Day - planted flowers and vegetables in garden
Nevada Reading Week
Reading, tutoring, and assisting teachers in the classroom
Thanksgiving Basket contest - baskets went to families

SITELINES

*Published monthly for all members of the NNSA/NV family.
Kathleen A. Carlson, Manager, NNSA, Nevada Operations Office.
Darwin J. Morgan, Director, Office of Public Affairs and Information.
Submit articles or ideas to the editor at 702-295-5792 or M/S NLV 106.*

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